



2006882

To: Vasquez Boulevard/I-70 Working Group and Contact Persons
From: Louise Smart and Mary Margaret Golten, CDR Associates
Date: April 29, 1999

**WORKING GROUP MEETING
THURSDAY, MAY 6
SWANSEA RECREATION CENTER
2659 East 49th Avenue**

Please note: This meeting will be from 8:30 AM to 3:00 PM. We will bring in lunch (for a small cost to each person). A longer-than-usual meeting is scheduled to allow for the in-depth discussion that is anticipated. Below is the framework for discussion, followed by other potential agenda items for this meeting.

OBJECTIVES:

1. Identify unanswered questions or unresolved concerns regarding the information EPA has presented to the working group to date.
2. EPA is seeking input into the design of a new phase of residential soil sampling planned for July, 1999. Development of the sampling plan is in the preliminary stage. The working group discussion will be designed to allow input into the sampling design and EPA's method of getting access for sampling.

Background:

Four sampling events have been completed by EPA to date. These are: Phase I soil sampling; Phase II soil sampling; the Physical and Chemical Characterization Study; and the Risk-Based Sampling Study. EPA will consider the results of these studies and comments received on this work in the development of sampling plans for the next phase of residential sampling.

Concepts for Study Design:

The distribution of measured arsenic and lead concentrations within the study area indicates that yards with elevated high concentrations occur randomly.

There are environmental justice concerns about the low percentage of homes sampled in the Cole and Clayton neighborhoods.

Phase III sampling design will target all residential properties that have not yet been sampled within the study area boundaries.

Correlation Properties:
Joyce for Post -

Have sure we have information about the
Historical Use of the resources

Patterns -

Wind Patterns ?

Soil Migration - Suspectate Sampling

Probes: Correlation applies to
four individual heavy lines - But two possibilities exist
1) Apply
2) Then probes which are now clean

- Consider the possibility of infiltration
in deciding the depth to sample

Location - Know that meters are different
what the level of Cd is

Suspectate Data -

Type of Hasevic - Does it two

Post WII Hones - Built on landfills

Late 40's -

NEX - Cadmium -

Risk Based Sampling Report - include the Detection
Limits

Suspectate Sampling -

Include with samples were
taken

The loading and the

Backchannel =

CONTACT w/
Haseco
RMA

Questions for the working group:

After reviewing the Risk Based Sampling report (April, 1999), do you have comments on the way the data was presented? What do the results suggest about the pattern of contamination?

Phase I sampling used a design of three samples per property. Phase II included composite sampling for some properties. The Risk Based Sampling study used a design of collecting a surface soil sample on a five foot grid.

MAY NEED TO LOOK DEEPER
FOR LITIGATION PURPOSES
CLAW SPACES

ATSDR - SOMETIMES SAMPLE TO
FLOOR LINE.

Phase III sampling design will use compositing techniques. EPA is considering whether or not to include subsurface sampling.

LOOK AT HOW METALS
MOVE THROUGH SOIL
COLUMN

LOOK AT PHASE I & II
DATA, MAKE SURE THAT
WE UNDERSTAND THE
TRENDS

Questions for the working group:

How are you comparing the results of Phase I, Phase II, and the risk based sampling?

What do the comparisons you've done suggest?

Regarding the environmental justice issue of incomplete sampling, what are the best ways for EPA to get access for sampling within the different neighborhoods?

The Physical and Chemical Characterization Study concluded that there is little difference in concentrations of arsenic, lead, cadmium, zinc in the bulk soils versus the fines.

Phase III sampling design will require that all soil samples be sieved to the <250 um fraction.

Questions for the working group:

Are there outstanding issues from EPA's responses to comments on this report that need to be addressed?

Do any of these issues affect the design of the Phase III sampling study?

EPA obtained dust samples in the risk based sampling effort. As documented in the draft report on the risk based sampling, chemical analysis of the dust samples was problematic due to limited sample sizes. A calculation of the site-specific ratio of arsenic and lead in soil to arsenic and lead in dust is an important measurement for the risk assessment.

Phase III sampling design will include dust sampling.

Dust - How to ESTABLISH - As there levels
 of THIS info - (Coke) Harrison's comment

MAYBE THE BURNER DUST IS PRESENTATIVE -
 OF EXHAUSTS DUE TO FURNACES.
 FROM COMMUNITY FROM
 OF WORKING COAL
 TO FURNACE

Access:

Look at
 Community
 VISITS

ADJUST
 PROPERTIES



Well - Risk Based Sampling -

APPE SAMPLES - SHOULD DESIGN COULD

- 04/00 ESTIMATION OF 16
 ON PAGE

Hot Spots - IF THE

STATISTICAL SIGNIFICANT -

November - Dec

January - Almost -
 February - Almost -
 March 4 - 2

Should SAY THAT WE DIDN'T GET

TIMELINE OF

Risk Assessment AND
 How THIS IS APPROVED

And Held XRF

Location - Accuracy IS
 Important - THE KNOWLEDGE OF

What

Questions for the working group:

Using the dust samples from the risk based sampling study, we have performed statistical simulations to determine the optimum number of dust samples to be collected. We are considering stratifying the required samples in two ways: by neighborhood and by estimated arsenic concentration in soil. We are also considering selecting some samples from homes already sampled and some from those to be sampled in Phase III. Do you agree with this approach?

Do you have any comments on the dust results presented in the April, 1999 Risk Based Sampling study?

Other Potential Agenda Items For This Meeting:

- Comparative soil study: EPA considerations for work plan
- Updates
- Community issues
- Follow-up to Environmental Justice Workshop
- Community Involvement Update
- Review of past meeting summaries
- Other?

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